

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for operating a cryostorage device, ~~especially for biological samples,~~ which comprises a sample carrier to receive at least one sample and a data storage, comprising the step of:

inductively transmitting data from the data storage into a wireless transmission channel or from the wireless channel to the data storage using a resonant circuit connected to the data storage, wherein at least one of the data storage and a data processing unit are supplied with energy using the resonant circuit.

2. (Previously Presented) The method according to claim 1, wherein the data are transmitted using a transponder which comprises the data storage and the resonant circuit.

3. (Cancelled).

4. (Previously Presented) The method according to claim 1, wherein the resonant circuit is connected via the data transmission channel to a transmission antenna from which the data are transmitted to a control and evaluation device.

5. (Previously Presented) The method according to claim 1, wherein the data transmission takes place whilst the at least one sample is in a cryopreserved state.

6. (Previously Presented) The method according to claim 1, wherein data are transmitted using the resonant circuit which comprise at least one of sample data with which the sample is identified and characterised, process data characteristic of sample storage conditions so far and control data with which predetermined operating states of the cryostorage device are set or triggered.

7. (Previously Presented) The method according to claim 6, wherein the sample data contain measured values which have been obtained for the samples or the cryostorage device, and the control data are adjusted using the control and evaluation device depending on the measured values.

8. (Previously Presented) The method according to claim 1, wherein the data transmission takes place at temperatures below -40 °C.

9. (Currently Amended) A cryostorage device, ~~especially for the cryostorage of biological samples in the frozen state~~, comprising:

- at least one sample carrier adapted to receive at least one sample,
- at least one data storage, and
- at least one resonant circuit which is connected to the data storage and is adapted set up to transmit data inductively from the data storage into a wireless transmission channel or transmit data inductively from the wireless transmission channel to the data storage using the resonant circuit,
wherein at least one of the at least one data storage and a data processing unit are supplied with energy using the resonant circuit.

10. (Previously Presented) The cryostorage device according to claim 9, wherein the resonant circuit is part of a transponder which comprises the data storage and the resonant circuit.

11. (Previously Presented) The cryostorage device according to claim 9, wherein a separate sample data storage is provided.

12. (Previously Presented) The cryostorage device according to claim 9 which contains a data processing unit in which the data storage is integrated.

13. (Previously Presented) The cryostorage device according to claim 9, wherein a transmission antenna and a control and evaluation device are provided wherein data can be transmitted between the data storage and the control and evaluation device via the resonant circuit and the transmission antenna.

14. (Previously Presented) The cryostorage device according to claim 9, wherein the sample carrier, the data storage and the resonant circuit are arranged in a thermally insulated container for accommodating a cooling medium.

15. (Previously Presented) A cryostorage system containing a plurality of cryostorage devices according to claim 9.

16. (Previously Presented) The cryostorage system according to claim 15, wherein the cryostorage devices are arranged in a cryocontainer with a transmission antenna and a control and evaluation device.

17. (Previously Presented) The cryostorage system according to claim 15, which is equipped with cooling using liquid nitrogen or liquid nitrogen vapour.

18. (Cancelled)

19. (Previously Presented) A method according to claim 1, wherein a telemetric transponder is used for data transmission in a cryostorage device for biological samples.

20. (Previously Presented) The cryostorage device according to claim 14, wherein the thermally insulated container is adapted for accommodating liquid nitrogen.

21. (Cancelled).

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22. (New) The method according to claim 1, wherein the at least one sample is a biological sample.

23. (New) The cryostorage device according to claim 9, wherein the device is adapted to store biological samples in a frozen state.